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#203, Los Angeles, CA 90066 (US). HE, Jun [CN/CN];
Fudan University, Shanghai (CN).

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(74) Agent: **OLDENKAMP, David, J.**; Shapiro & Dupont
LLP, 233 Wilshire Boulevard, Suite 700, Santa Monica, CA
90401 (US).

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(71) Applicant (for all designated States except US): **THE
REGENTS OF THE UNIVERSITY OF CALIFORNIA**
[US/US]; 1111 Franklin Street, 12th Floor, Oakland, CA
94607-5200 (US).

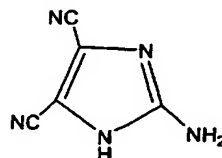
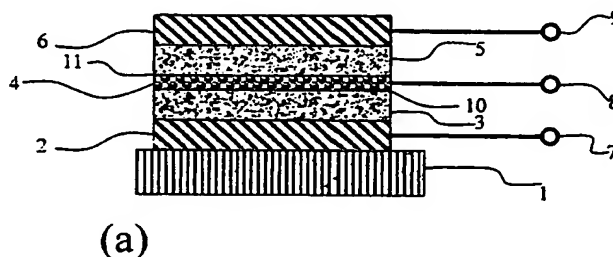
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(72) Inventors; and

(75) Inventors/Applicants (for US only): **YANG, Yang**
[US/US]; 13730 Bayliss Road, Los Angeles, CA 90095
(US). **MA, Liping** [CN/US]; 3290 Sawtelle Boulevard

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(54) Title: **THREE-TERMINAL ELECTRICAL BISTABLE DEVICES**



(57) Abstract: A three terminal electrical bistable device that includes a tri-layer composed of an electrically conductive mixed layer sandwiched between two layers of low conductivity organic material that is interposed between a top electrode and a bottom electrode. The conducting mixed layer serves as the middle electrode. The device includes two memory cells composed of electrode/organic layer/mixed layer, where the interfaces between the electrically conductive mixed layer and the low conductivity organic layer exhibit bistable behavior.

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